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IN THE CLAIMS

1. (Currently Amended) A method for cleaning wastewater comprising
locating wastewater brine into a flash tank;
circulating the brine under pressure through a heat exchanger ~~media to heat the brine to~~
~~between about 220 to about 230°F (104-110°C);~~
decreasing the pressure of the heated brine during re-introduction of the pressurized, heated
brine into the flash tank by an amount effective to transform at least a portion of water from the brine
from liquid to steam; and
removing the steam from the flash tank.
2. (Original) The method of claim 1, wherein the flash tank has a conical bottom.
3. (Original) The method of claim 1, wherein the brine is pressurized by circulating the
brine upstream against the head of the heat exchanger.
4. (Original) The method of claim 3, wherein the brine is circulated at about 7 feet per
second.
5. (Original) The method of claim 1, wherein decreasing the pressure is by passing the
pressurized, heated brine through a fog nozzle.
6. (Original) The method of claim 1, wherein the pressure is decreased from about 25 psi
(37.2 Pa) to about atmospheric pressure.
7. (Currently Amended) The method of claim 1, further comprising passing the ~~vapor~~
~~phase steam~~ through a demister.
8. (Currently Amended) The method of claim 7, further comprising introducing the
steam to an air stream for atmospheric venting, ~~condensing the steam to form water.~~

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9. (Original) The method of claim 1, further comprising filtering a portion of the brine from the flash tank to remove solids.

10. (Original) The method of claim 9, wherein the solids are dewatered.

11. (Original) The method of claim 10, wherein the filtering and dewatering is by a filter press.

12 - 24. (Cancelled)

25. (New) The method of claim 1, wherein circulating the brine under pressure through a heat exchange media heats the brine to a temperature between about 220 to about 230°F.

26. (New) The method of claim 7, further comprising condensing the steam to form water.

27. (New) The method of claim 9, wherein the filter is a plate-type filter and the heat exchanger is a shell and tube heat exchanger.

28. (New) The method of claim 11, further comprising automatically removing the dewatered solids from the filter press.

29. (New) The method of claim 28, wherein the dewatered solids are automatically removed from the filter press by a shaker system.

30. (New) A method for cleaning wastewater, comprising:

circulating wastewater brine under pressure through a shell and tube heat exchanger to form heated brine;

decreasing the pressure of the heated brine during introduction of the heated brine into the tank by an amount effective to transform at least a portion of the heated brine to steam; and

removing the steam from the flash tank.

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31. (New) The method of claim 30, further comprising
filtering a portion of the heated brine from the flash tank to remove solids; and
dewatering the solids to form dewatered solids;
wherein the filtering and dewatering is by a filter press.
32. (New) The method of claim 31, further comprising automatically removing the
dewatered solids from the filter press.
33. (New) The method of claim 32, wherein the dewatered solids are automatically
removed from the filter press by a shaker system.